The State of New Hampshire
Department of Environmental Services

Michael P. Nolin
Commissioner

AGGREGATED PRECIPITATION DATA for N.H. DROUGHT MANAGEMENT AREAS

	Actual Rainfall (inches)	Normal Rainfall (inches)	Deviation from Normal (inches)	Percent of Normal
Coastal Drainage: Rockingham, Strafford counties				
four month	31.26	13.08	18.18	239%
six month	35.08	19.16	15.92	183%
nine month	50.11	30.40	19.71	165%
twelve month	70.90	40.70	30.20	174%
Southern Interior: Belknap, Hillsborough, Merrimack counties				
four month	27.43	13.07	14.36	210%
six month	31.07	19.28	11.79	161%
nine month	44.69	30.40	14.29	147%
twelve month	64.66	40.79	23.87	159%
South Western: Cheshire, Sullivan counties				
four month	21.11	13.02	8.09	162%
six month	24.13	19.24	4.89	125%
nine month	37.52	30.02	7.50	125%
twelve month	59.30	40.58	18.72	146%
White Mountain: Carroll, Grafton counties				
four month	24.34	12.16	12.18	200%
six month	27.70	17.82	9.88	155%
nine month	40.68	28.28	12.40	144%
twelve month	59.21	38.80	20.41	153%
North Country: Coos county				
four month	21.88	11.20	10.68	195%
six month	25.49	16.44	9.05	155%
nine month	38.99	26.08	12.91	150%
twelve month	59.42	36.96	22.46	161%

four month period : April 2006 - July 2006
six month period : February 2006 - July 2006
nine month period : November 2005 - July 2006
twelve month period: August 2005 - July 2006

Source: Northeast River Forecast Center, NH Des Dam Bureau

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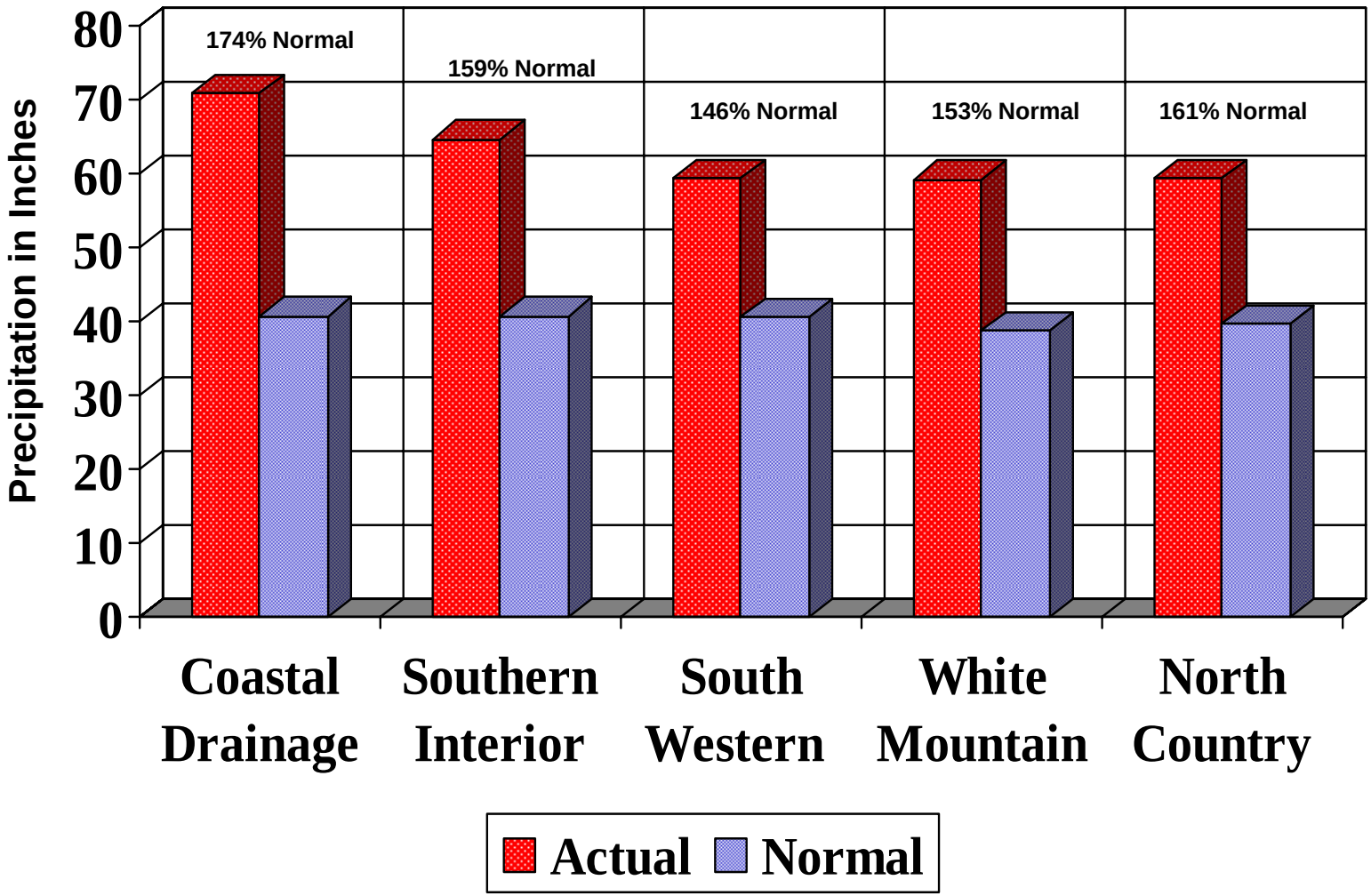
Telephone: (603) 271-3503 • Fax: (603) 271-7894 • TDD Access: Relay NH 1-800-735-2964
DES Web site: www.des.nh.gov

TWELVE MONTH AGGREGATED PRECIPITATION DATA for N.H. DROUGHT MANAGEMENT AREAS from August 2005 through July 2006



NH DES Dam Bureau, Northeast River Forecast Center

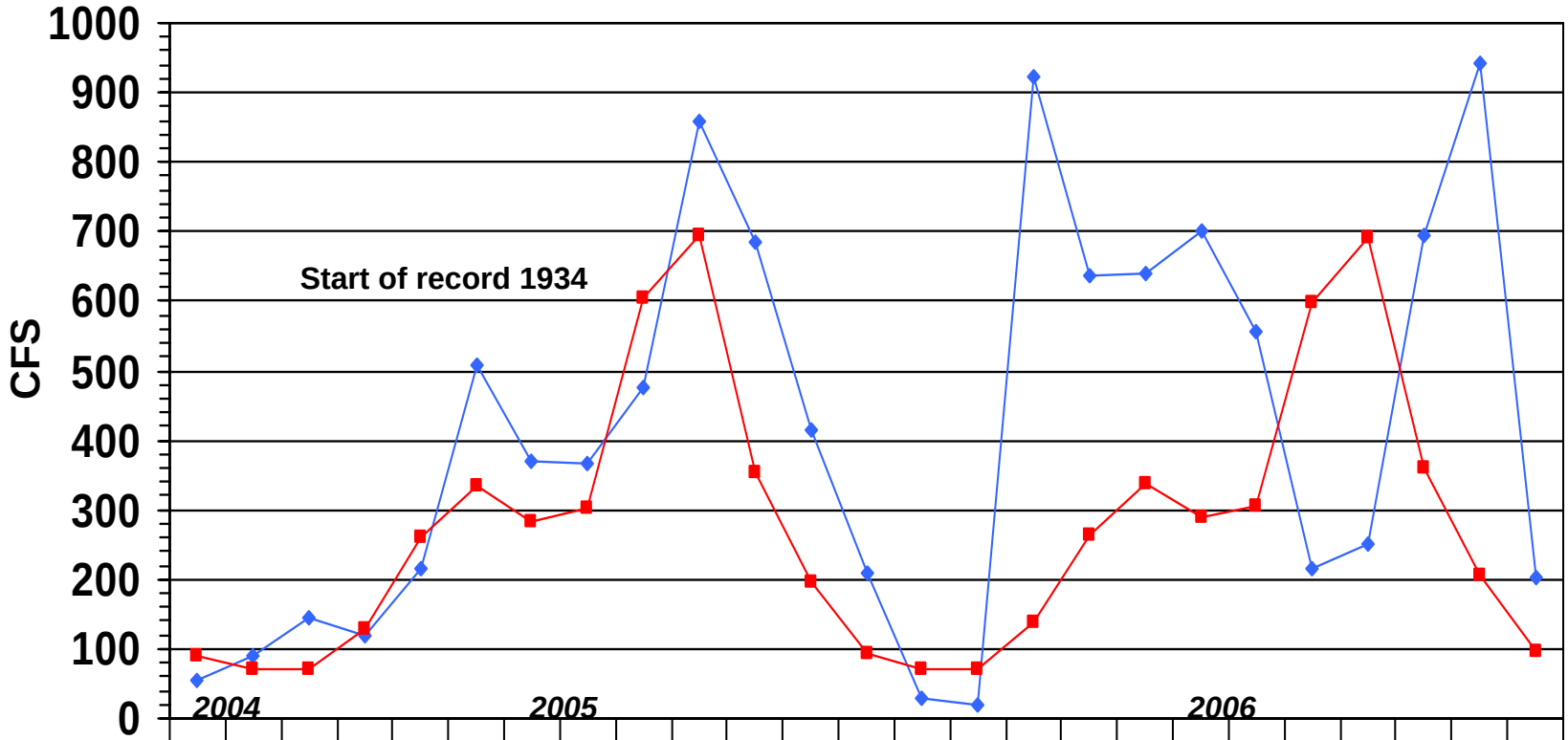
MONTHLY PRECIPITATION DATA FOR N.H COUNTIES

		AUG	SEPT	OCT	NOV	DEC	JAN	2006 FEB	MARCH	APRIL	MAY	JUNE	JULY
Coastal drainage													
STRAFFORD	actual	1.98	2.92	15.92	4.94	5.80	5.67	2.93	1.25	3.34	12.79	8.67	5.86
	normal	3.28	3.44	3.48	4.12	3.76	3.12	2.72	3.20	3.40	3.12	3.12	3.12
	deviation	-1.30	-0.52	12.44	0.82	2.04	2.55	0.21	-1.95	-0.06	9.67	5.55	2.74
ROCKINGHAM	actual	3.33	2.67	14.77	4.68	4.74	4.22	2.56	0.91	3.27	14.20	9.25	5.13
	normal	3.44	3.40	3.56	4.24	3.92	3.32	2.84	3.40	3.44	3.32	3.32	3.32
	deviation	-0.11	-0.73	11.21	0.44	0.82	0.90	-0.28	-2.49	-0.17	10.88	5.93	1.81
Average	actual	2.66	2.80	15.35	4.81	5.27	4.95	2.75	1.08	3.31	13.50	8.96	5.50
	normal	3.36	3.42	3.52	4.18	3.84	3.22	2.78	3.30	3.42	3.22	3.22	3.22
	deviation	-0.71	-0.63	11.83	0.63	1.43	1.73	-0.04	-2.22	-0.12	10.28	5.74	2.28
Southern Interior													
HILLSBOROUGH	actual	3.13	2.09	14.39	4.59	4.55	4.46	2.58	0.99	2.66	10.93	9.82	3.98
	normal	3.68	3.60	3.72	4.32	4.16	3.60	3.16	3.88	3.56	3.60	3.60	3.60
	deviation	-0.55	-1.51	10.67	0.27	0.39	0.86	-0.58	-2.89	-0.90	7.33	6.22	0.38
MERRIMACK	actual	2.52	3.18	15.05	4.99	4.56	4.29	2.55	1.48	2.95	11.72	9.62	5.19
	normal	3.44	3.36	3.44	4.00	3.92	3.16	2.84	3.40	3.36	3.16	3.16	3.16
	deviation	-0.92	-0.18	11.61	0.99	0.64	1.13	-0.29	-1.92	-0.41	8.56	6.46	2.03
BELKNAP	actual	2.38	3.47	13.71	4.02	5.14	4.26	2.12	1.19	2.66	8.95	8.02	5.79
	normal	3.28	3.36	3.28	3.80	3.48	2.92	2.44	2.92	3.24	2.92	2.92	2.92
	deviation	-0.90	0.11	10.43	0.22	1.66	1.34	-0.32	-1.73	-0.58	6.03	5.10	2.87
Average	actual	2.68	2.91	14.38	4.53	4.75	4.34	2.42	1.22	2.76	10.53	9.15	4.99
	normal	3.47	3.44	3.48	4.04	3.85	3.23	2.81	3.40	3.39	3.23	3.23	3.23
	deviation	-0.79	-0.53	10.90	0.49	0.90	1.11	-0.40	-2.18	-0.63	7.31	5.93	1.76
South Western													
CHESHIRE	actual	2.99	2.86	15.86	4.87	4.81	4.10	1.55	1.13	2.28	5.32	7.22	3.04
	normal	3.68	3.52	3.36	3.84	3.76	3.28	2.80	3.48	3.40	3.28	3.28	3.28
	deviation	-0.69	-0.66	12.50	1.03	1.05	0.82	-1.25	-2.35	-1.12	2.04	3.94	-0.24
SULLIVAN	actual	3.73	2.92	15.20	5.42	3.76	3.82	2.01	1.35	2.85	7.26	9.05	5.19
	normal	3.64	3.44	3.48	3.84	3.72	3.12	2.80	3.36	3.44	3.12	3.12	3.12
	deviation	0.09	-0.52	11.72	1.58	0.04	0.70	-0.79	-2.01	-0.59	4.14	5.93	2.07
Average	actual	3.36	2.89	15.53	5.15	4.29	3.96	1.78	1.24	2.57	6.29	8.14	4.12
	normal	3.66	3.48	3.42	3.84	3.74	3.20	2.80	3.42	3.42	3.20	3.20	3.20
	deviation	-0.30	-0.59	12.11	1.31	0.55	0.76	-1.02	-2.18	-0.86	3.09	4.94	0.92
White Mountain													
GRAFTON	actual	4.76	3.85	10.74	4.99	3.61	3.44	1.70	1.53	2.81	6.87	7.90	5.76
	normal	3.64	3.48	3.48	3.76	3.64	2.92	2.60	3.04	3.24	2.92	2.92	2.92
	deviation	1.12	0.37	7.26	1.23	-0.03	0.52	-0.90	-1.51	-0.43	3.95	4.98	2.84
CARROLL	actual	3.59	3.20	10.92	4.74	5.11	4.06	2.19	1.30	2.84	8.22	7.95	6.33
	normal	3.48	3.44	3.52	3.92	3.68	3.00	2.60	3.08	3.32	3.00	3.00	3.00
	deviation	0.11	-0.24	7.40	0.82	1.43	1.06	-0.41	-1.78	-0.48	5.22	4.95	3.33
Average	actual	4.18	3.53	10.83	4.87	4.36	3.75	1.95	1.42	2.83	7.55	7.93	6.05
	normal	3.56	3.46	3.50	3.84	3.66	2.96	2.60	3.06	3.28	2.96	2.96	2.96
	deviation	0.62	0.07	7.33	1.03	0.70	0.79	-0.66	-1.65	-0.46	4.59	4.97	3.09
North Country													
COOS	actual	4.75	4.78	10.90	5.96	4.00	3.54	1.86	1.75	3.02	6.10	7.96	4.80
	normal	4.00	3.40	3.48	3.48	3.44	2.72	2.48	2.76	3.04	2.72	2.72	2.72
	deviation	0.75	1.38	7.42	2.48	0.56	0.82	-0.62	-1.01	-0.02	3.38	5.24	2.08

Source: Northeast River Forecast Center, NH DES Dam Bureau

LAMPREY RIVER near NEWMARKET NH
Gage# 01073500

MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS

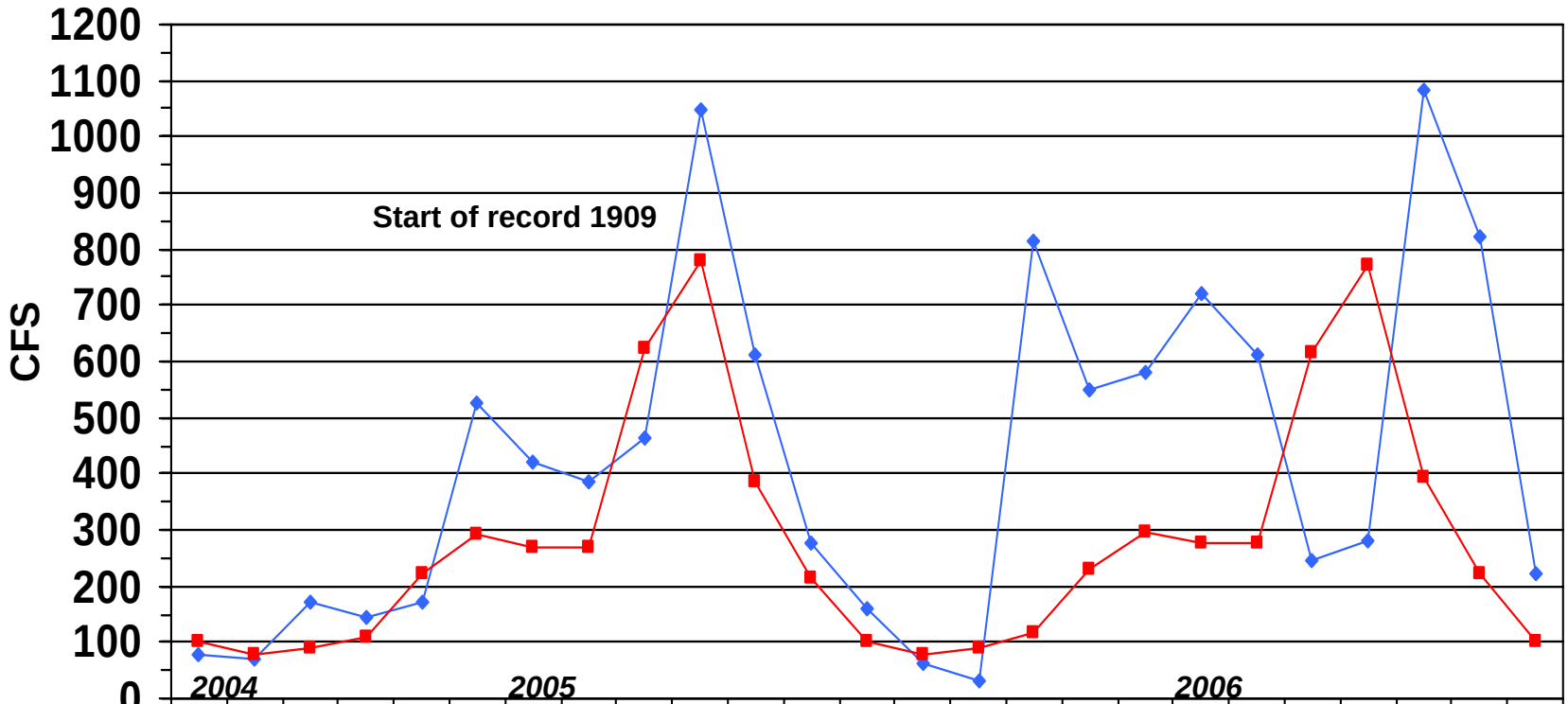


	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July
Monthly Mean Flow	56	89	145	119	217	508	369	368	477	857	685	415	209	29	18	923	638	639	700	555	217	252	696	943	203
Mean of Monthly Flows	91	71	71	128	259	333	282	301	603	696	355	195	93	70	70	139	264	337	288	304	598	690	360	206	95
% of Normal	62%	125%	204%	93%	84%	153%	131%	123%	79%	123%	193%	213%	255%	41%	26%	664%	242%	190%	243%	183%	36%	37%	193%	458%	214%

NH DES, Dam Bureau, Source: USGS (Ice: 01/03,12/04)

SOUHEGAN RIVER at MERRIMACK NH
Gage# 01094000

MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS

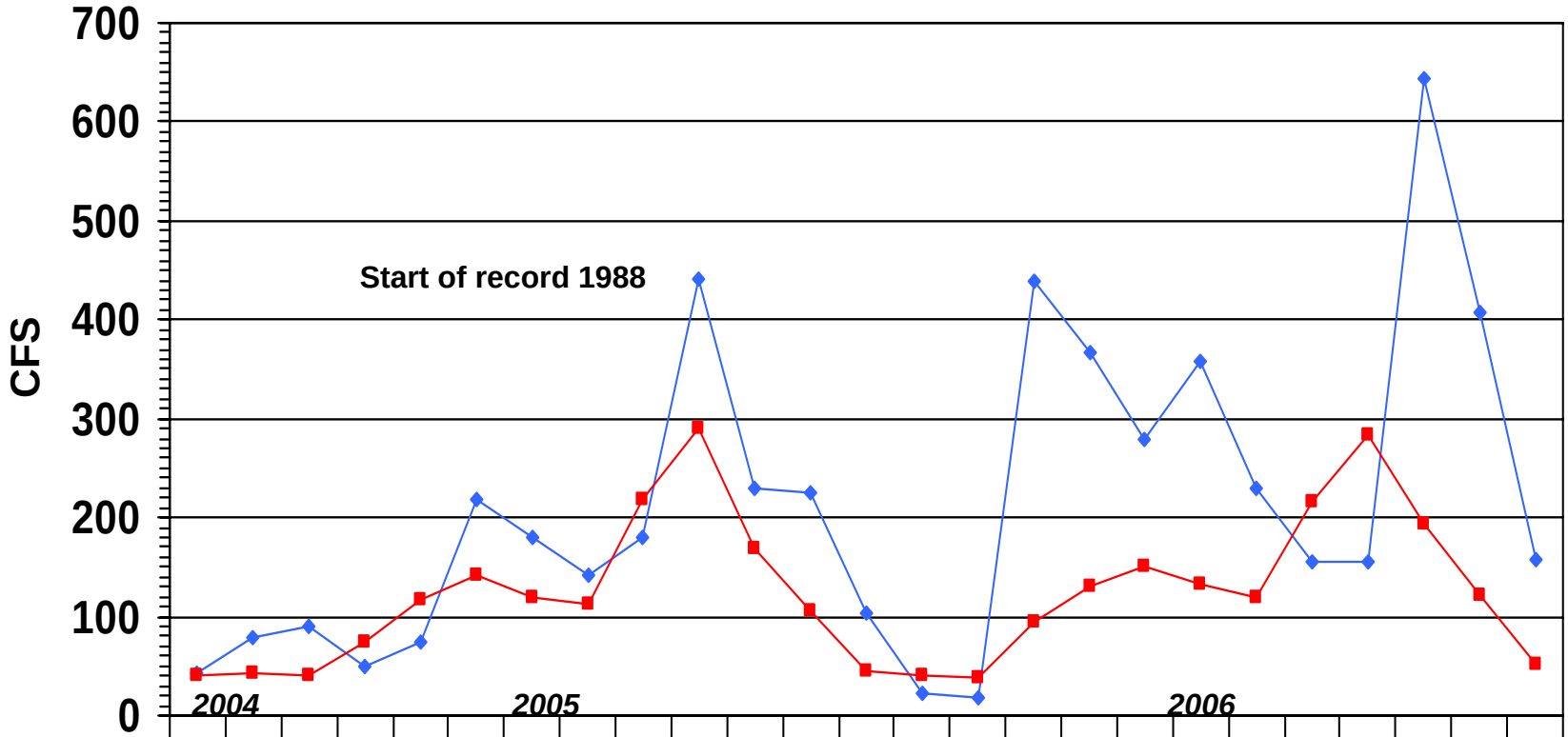


	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July
Monthly Mean Flow	76	71	173	146	171	525	419	386	464	1049	613	276	158	61	32	814	551	579	721	611	244	281	1085	821	223
Mean of Monthly Flows	100	78	89	108	224	292	270	270	622	780	385	215	101	78	88	118	228	296	276	275	616	773	395	224	103
% of Normal	65%	79%	194%	135%	76%	180%	155%	143%	75%	134%	159%	128%	156%	78%	36%	690%	242%	196%	261%	222%	40%	35%	275%	367%	217%

NH DES, Dam Bureau, Source: USGS (ice-01/03,02/03,03/03,01/04,02/04)

SOUCOOK RIVER at PEMBROKE ROAD
near CONCORD NH, Gage# 01089100

MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS

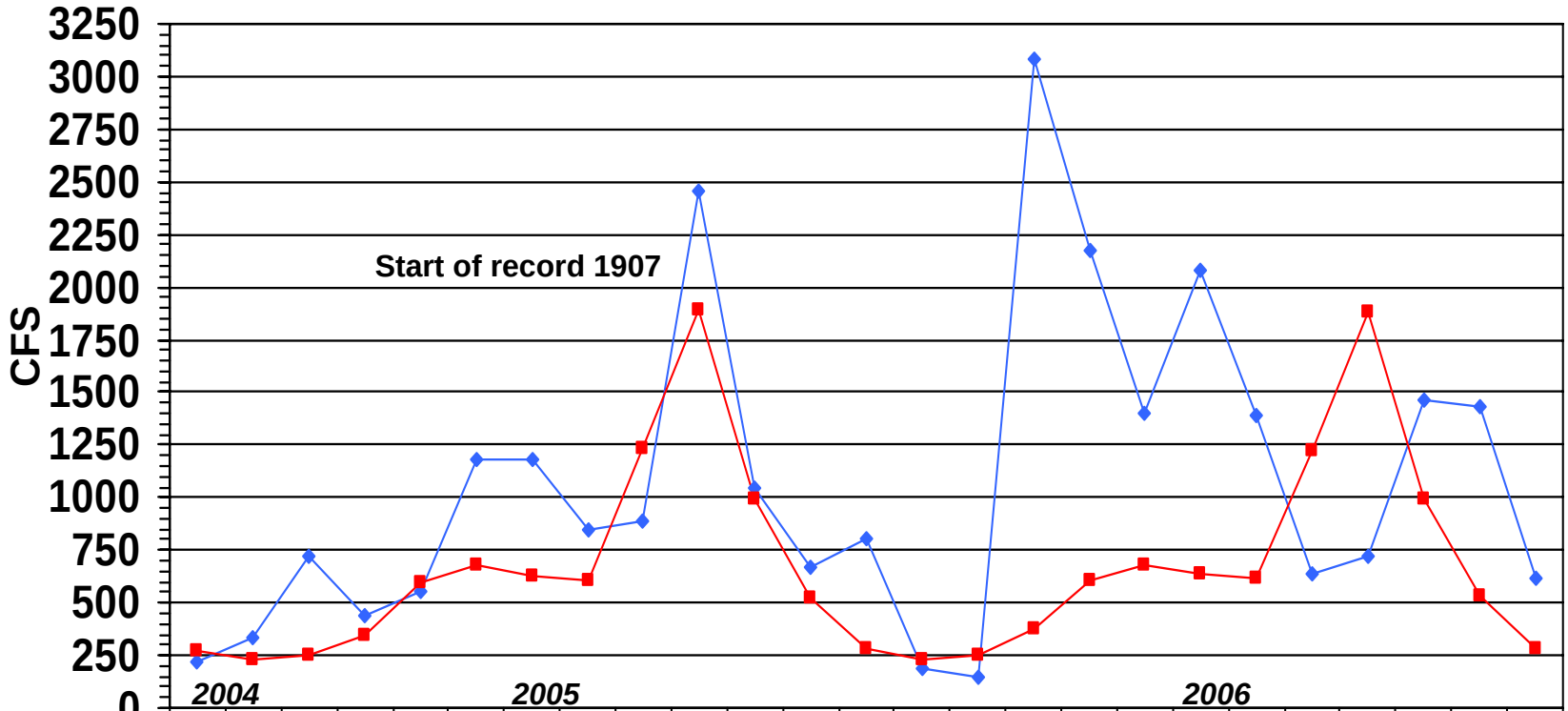


	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July
Monthly Mean Flow	42	79	91	49	74	218	181	141	180	442	229	224	104	22	19	438	368	280	359	229	155	155	643	407	158
Mean of Monthly Flows	41	42	40	75	117	142	120	113	219	290	169	106	45	41	39	95	131	150	133	119	216	283	194	122	51
% of Normal	102%	188%	228%	65%	63%	149%	143%	125%	84%	152%	137%	115%	231%	54%	49%	461%	281%	187%	270%	192%	72%	55%	331%	334%	310%

NH DES, Dam Bureau, Source: USGS (ice: 01/03, 02/03, 03/03, 01/04, 02/04, 03/04).

ASHUELOT RIVER at HINSDALE NH
Gage# 01161000

MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS

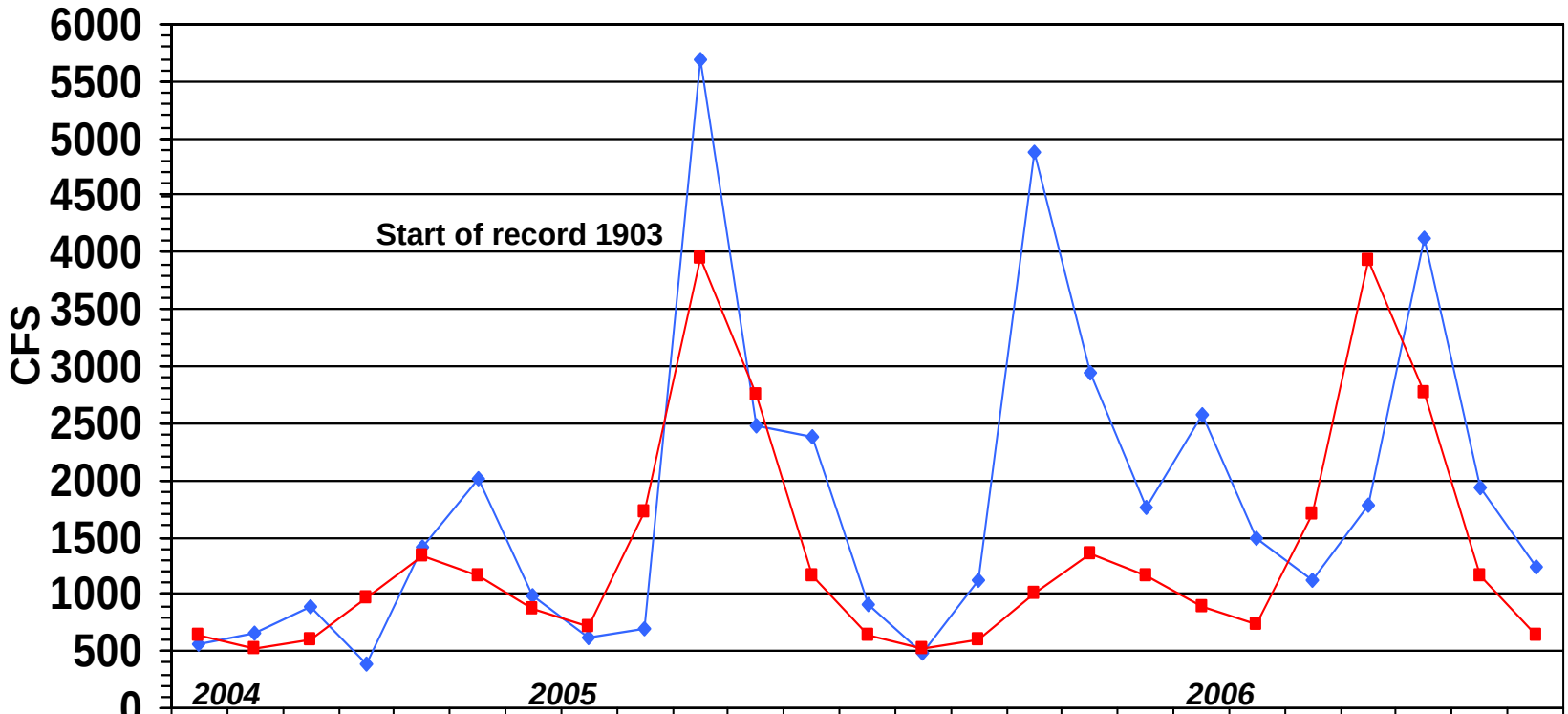


	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July
Monthly Mean Flow	224	334	721	434	554	1185	1182	850	890	2454	1048	671	802	190	145	3088	2171	1396	2082	1385	642	718	1459	1434	615
Mean of Monthly Flows	274	230	249	350	593	675	624	610	1232	1888	991	524	279	230	247	378	610	683	640	618	1226	1876	996	534	283
% of Normal	82%	145%	290%	117%	80%	170%	184%	139%	72%	130%	106%	128%	287%	83%	59%	817%	356%	204%	325%	224%	52%	38%	146%	269%	217%

NH DES, Dam Bureau, Source: USGS (ice: 01/03,02/03,03/03,01/04,02/04,03/04)

PEMIGEWASSET RIVER at PLYMOUTH NH
Gage# 01076500

MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS



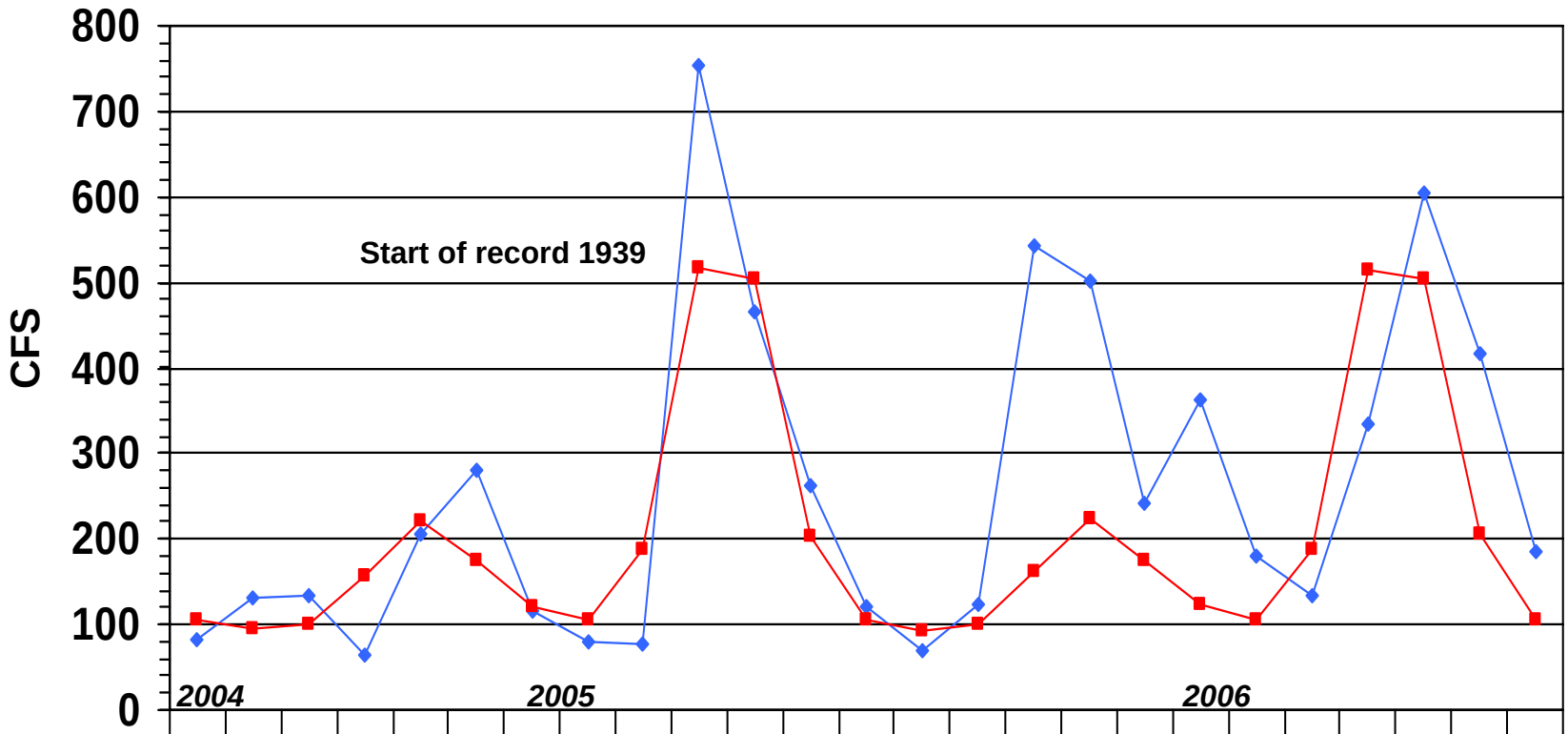
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July
Monthly Mean Flow	563	654	890	393	1416	2014	986	614	702	5697	2472	2380	901	475	1114	4878	2948	1761	2578	1500	1118	1789	4130	1941	1235
Mean of Monthly Flows	634	515	598	964	1342	1161	870	725	1718	3941	2754	1159	637	514	603	1002	1358	1167	886	733	1712	3920	2767	1167	643
% of Normal	89%	127%	149%	41%	106%	173%	113%	85%	41%	145%	90%	205%	142%	92%	185%	487%	217%	151%	291%	205%	65%	46%	149%	166%	192%

NH DES, Dam Bureau, Source: USGS (ice: 01/03,02/03,03/03,12/03,01/04,02/04,03/04,12/04)

AMMONOOSUC RIVER at BETHLEHEM JUNCTION NH
Gage# 01137500

MONTHLY MEAN FLOW COMPARED TO MEAN OF MONTHLY FLOWS

This station replaces gage# 01137000 which was discontinued by DES at the end of Sept 2004



	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July
Monthly Mean Flow	82	130	135	64	207	281	117	80	77	753	465	262	120	70	123	542	502	243	363	180	133	334	605	418	185
Mean of Monthly Flows	105	94	100	157	221	174	120	105	188	516	503	204	105	93	100	162	225	175	123	106	187	514	504	207	106
% of Normal	78%	138%	135%	41%	94%	161%	98%	76%	41%	146%	92%	128%	114%	75%	123%	335%	223%	139%	295%	170%	71%	65%	120%	202%	175%

NH DES, Dam Bureau, Source: USGS(ice:01/04,02/04,03/04,12/04)

STREAMFLOW DATA FOR SELECTED NH STATIONS AS OF AUGUST 14, 2006

Station number	Station name	Est. Mean Flow (cfs)	Long Term Median Flow	99% Flow (cfs)	7Q10 Flow (cfs)	Lowest Period of Record Daily Flow (cfs)	% of Median	Below 0.99 Flow?	Below 7Q10 Flow?	Below Record Flow?
Androscoggin River Basin										
01052500	Diamond River near Wentworth Location, NH	103	75	22	16	6.8	137%	FALSE	FALSE	FALSE
01053500	Androscoggin River at Errol, NH	1,720	1,690	500	451	0	102%	FALSE	FALSE	FALSE
01054000	Androscoggin River near Gorham, NH	1,800	1,850	1300	1310	795	97%	FALSE	FALSE	FALSE
Saco River Basin										
01064500	Saco River near Conway, NH	325	237	105	97	66	137%	FALSE	FALSE	FALSE
01064801	BEARCAMP RIVER AT SOUTH TAMWORTH, NH	21	22	6	4.8	4.5	95%	FALSE	FALSE	FALSE
Piscataqua River Basin										
01072800	COCHECO RIVER NEAR ROCHESTER, NH	32	21	--	--	2.2	152%	#VALUE!	#VALUE!	FALSE
01073500	LAMPREY RIVER NEAR NEWMARKET, NH	47	41	7	5	--	115%	FALSE	FALSE	#VALUE!
Merrimack River Basin										
01074520	EAST BRANCH PEMIGEWASSET RIVER AT LINCOLN, NH	113	119	55	49	46	95%	FALSE	FALSE	FALSE
01075000	PEMIGEWASSET RIVER AT WOODSTOCK, NH	161	124	65	56	--	130%	FALSE	FALSE	
01076000	BAKER RIVER NEAR RUMNEY, NH	63	41	18	15	--	154%	FALSE	FALSE	
01076500	PEMIGEWASSET RIVER AT PLYMOUTH, NH	377	315	130	118	45	120%	FALSE	FALSE	FALSE
01078000	SMITH RIVER NEAR BRISTOL, NH	48	22	7	6.2	2.7	218%	FALSE	FALSE	FALSE
01081000	WINNIPESAUKEE RIVER AT TILTON, NH	884	302	143	136	48	293%	FALSE	FALSE	FALSE
01081500	MERRIMACK RIVER AT FRANKLIN JUNCTION, NH	1,380	1,180	520*	551	--	117%		FALSE	
01082000	CONTOOCOOK RIVER AT PETERBOROUGH, NH	21	23	5.5	6.3	--	91%	FALSE	FALSE	
01085000	CONTOOCOOK RIVER NEAR HENNIKER, NH	96	---	40	37	--		FALSE	FALSE	
01085500	CONTOOCOOK R BL HOPKINTON DAM AT W HOPKINTON, NH	121	138	35	39	--	88%	FALSE	FALSE	
01086000	WARNER RIVER AT DAVISVILLE, NH	65	28	6	5.3	--	232%	FALSE	FALSE	
01087000	BLACKWATER RIVER NEAR WEBSTER, NH	157	---	15.5	13.7	--		FALSE	FALSE	
01090800	PISCATAQUOG RIVER BL EVERETT DAM, NR E WEARE, NH	21	---	1.7	1.2	--		FALSE	FALSE	
01091500	PISCATAQUOG RIVER NEAR GOFFSTOWN, NH	16	---	8	8.8	--		FALSE	FALSE	
01092000	MERRIMACK R NR GOFFS FALLS, BELOW MANCHESTER, NH	2,290	1,500	560*	644	98*	153%		FALSE	
01094000	SOUHEGAN RIVER AT MERRIMACK, NH	52	46	15	12.9	--	113%	FALSE	FALSE	
Connecticut River Basin										
01129200	CONNECTICUT R BELOW INDIAN STREAM NR PITTSBURG, NH	653	425		42	30	154%	FALSE	FALSE	FALSE
01129500	CONNECTICUT RIVER AT NORTH STRATFORD, NH	918	712		176	108	129%	FALSE	FALSE	FALSE
01131500	CONNECTICUT RIVER NEAR DALTON, NH	1,720	1,050		389	115	164%	FALSE	FALSE	FALSE
01137500	AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, NH	103	56		28	21	184%	FALSE	FALSE	FALSE
01138500	CONNECTICUT RIVER AT WELLS RIVER, VT	2,180	1,650		690	152*	132%		FALSE	
01144500	CONNECTICUT RIVER AT WEST LEBANON, NH	5,180	2,460	380*	902	82*	211%		FALSE	
01152500	SUGAR RIVER AT WEST CLAREMONT, NH	201	91	40	38	14	221%	FALSE	FALSE	FALSE
01154500	CONNECTICUT RIVER AT NORTH WALPOLE, NH	2,980	3,070	260*	1058	115*	97%		FALSE	
01158000	ASHUELOT RIVER BELOW SURRY MT DAM, NEAR KEENE, NH	28	16	4.5	2.7	0.4	175%	FALSE	FALSE	FALSE
01158600	OTTER BROOK BELOW OTTER BROOK DAM, NEAR KEENE, NH	7	8.4	1.6	1.1	0.3	83%	FALSE	FALSE	FALSE
01160350	ASHUELOT RIVER AT WEST SWANZEY, NH	65	91	32	--	--	71%	FALSE		

*Flow duration and record low mean daily flow significantly affected by reservoir operations

**Estimated

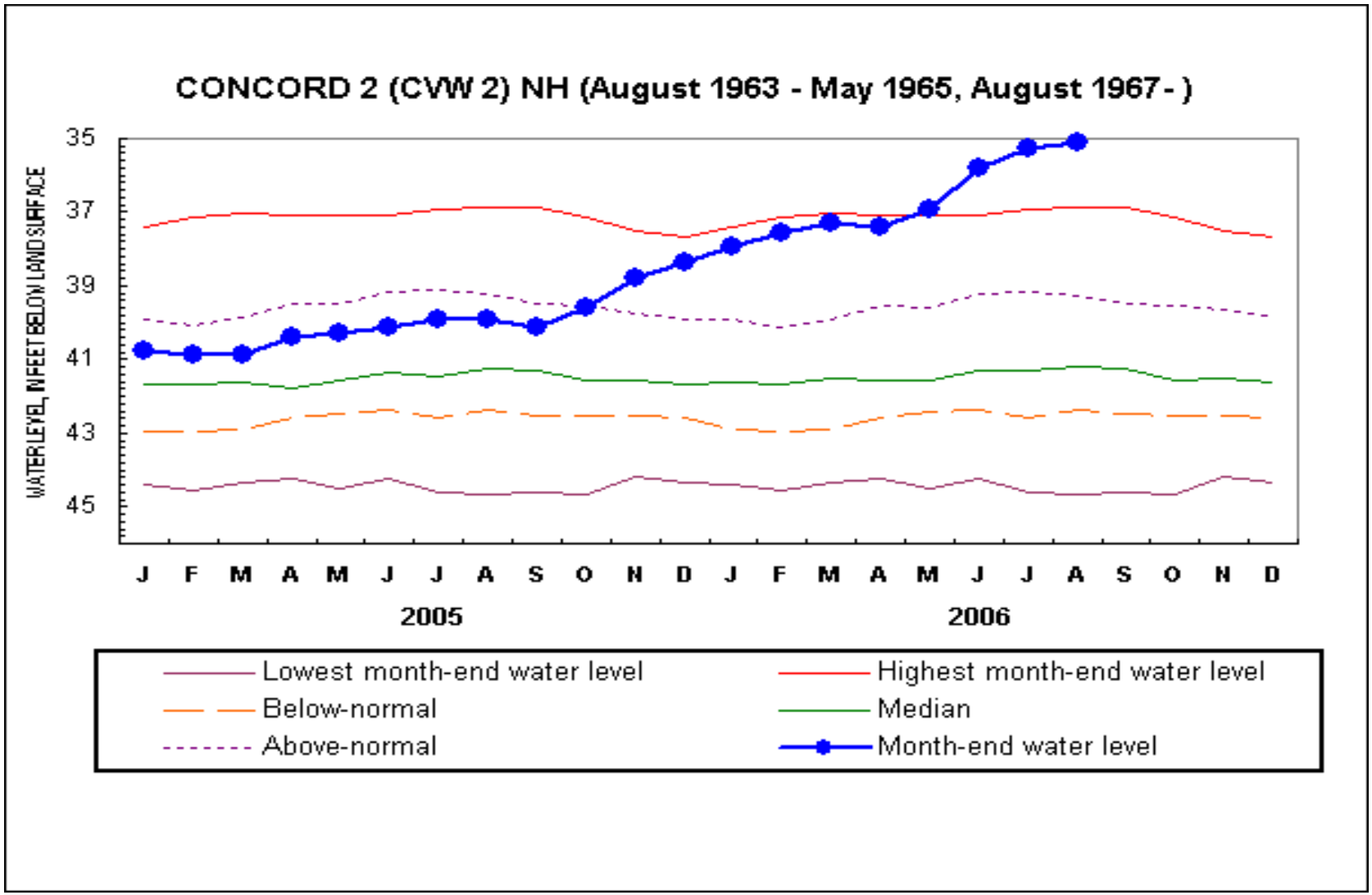
Source: USGS, NH DES

SUMMARY	Below 0.99 Flow?	Below 7Q10 Flow?	Below Record Flow?
FALSE =	28	32	17
TRUE =	0	0	0

New Hampshire Groundwater Levels for July 2006

WELL	START OF RECORD	WATER LEVEL BELOW SURFACE DATUM (ft)	NET CHANGE IN ONE MONTH (ft)	NET CHANGE IN ONE YEAR (ft)	MEDIAN	RANGE (ft)	DEPARTURE FROM MONTHLY MEDIAN (FT)	PERCENT OF RANGE	STATUS
ALBANY 14	1995	5.77	-0.73	+0.73	6.96	1.91	+1.19	62.3	ABOVE NORMAL
ALBANY 15	1995	7.81	-1.02	+0.72	8.75	2.46	+0.94	38.2	ABOVE NORMAL
BARNSTEAD 10	1995	2.36	-0.09	+0.47	3.18	0.35	+0.82	234.3	ABOVE NORMAL
CAMPTON 34	1988	12.39	-0.42	-0.06	13.52	1.88	+1.13	60.1	NORMAL
COLEBROOK 73	1995	7.75	-0.82	-0.42	7.95	0.72	0.2	27.8	NORMAL
CONCORD 2	1963	35.26	+0.55	+4.66	41.32	4.39	+6.06	138.0	ABOVE NORMAL
CONCORD 4	1966	15.48	-1.20	+1.37	17.48	2.03	+2.00	98.5	ABOVE NORMAL
DEERFIELD 46	1984	37.45	----	+0.69	38.49	0.75	+1.04	138.7	ABOVE NORMAL
ENFIELD 30	1990	1.99	-0.24	+3.02	6.02	3.52	+4.03	114.5	ABOVE NORMAL
ERROL 1	1966	----	----	----	12.5	----	----	----	----
FRANKLIN 1	1966	6.64	+0.09	+3.51	11.73	3.75	+5.09	135.7	ABOVE NORMAL
GREENFIELD 75	1995	56.61	+0.32	+2.73	60.62	1.63	+4.01	246.0	ABOVE NORMAL
HOOKSETT 5	1965	46.38	-1.81	+1.55	48.25	4.51	+1.87	41.5	ABOVE NORMAL
KEENE 2	1963	3.46	-1.56	+0.19	4.73	1.89	+1.27	67.2	ABOVE NORMAL
LANCASTER 1	1966	2.20	-0.60	+0.30	2.26	1.36	+0.06	4.4	NORMAL
LEE 1	1953	30.36	-0.58	+0.30	31.25	0.88	+0.89	101.1	ABOVE NORMAL
LISBON 19	1990	13.59	-0.70	+0.88	14.50	1.99	+0.91	45.7	ABOVE NORMAL
NASHUA 218	1964	26.91	-0.93	+0.62	27.97	1.58	+1.06	67.1	ABOVE NORMAL
NEW DURHAM 53	1986	18.60	-0.17	+0.52	19.56	1.03	+0.96	93.2	ABOVE NORMAL
NEW LONDON 1	1947	4.32	+2.43	+4.34	10.85	3.55	+6.53	183.9	ABOVE NORMAL
NEWPORT 3	1995	3.56	+1.08	+2.26	6.27	1.62	+2.71	167.3	ABOVE NORMAL
NEWPORT 6	1995	3.66	+1.06	+2.23	6.37	1.69	+2.71	160.4	ABOVE NORMAL
OSSIPEE 38	1995	33.45	-0.36	+1.09	35.33	1.53	+1.88	122.9	ABOVE NORMAL
SHELBURNE 2	1995	4.90	-1.27	+0.17	4.90	0.48	+0.00	0.0	NORMAL
WARNER 1	1965	26.54	-1.26	+1.78	29.93	2.13	+3.39	159.2	ABOVE NORMAL

Source: USGS, NH DES



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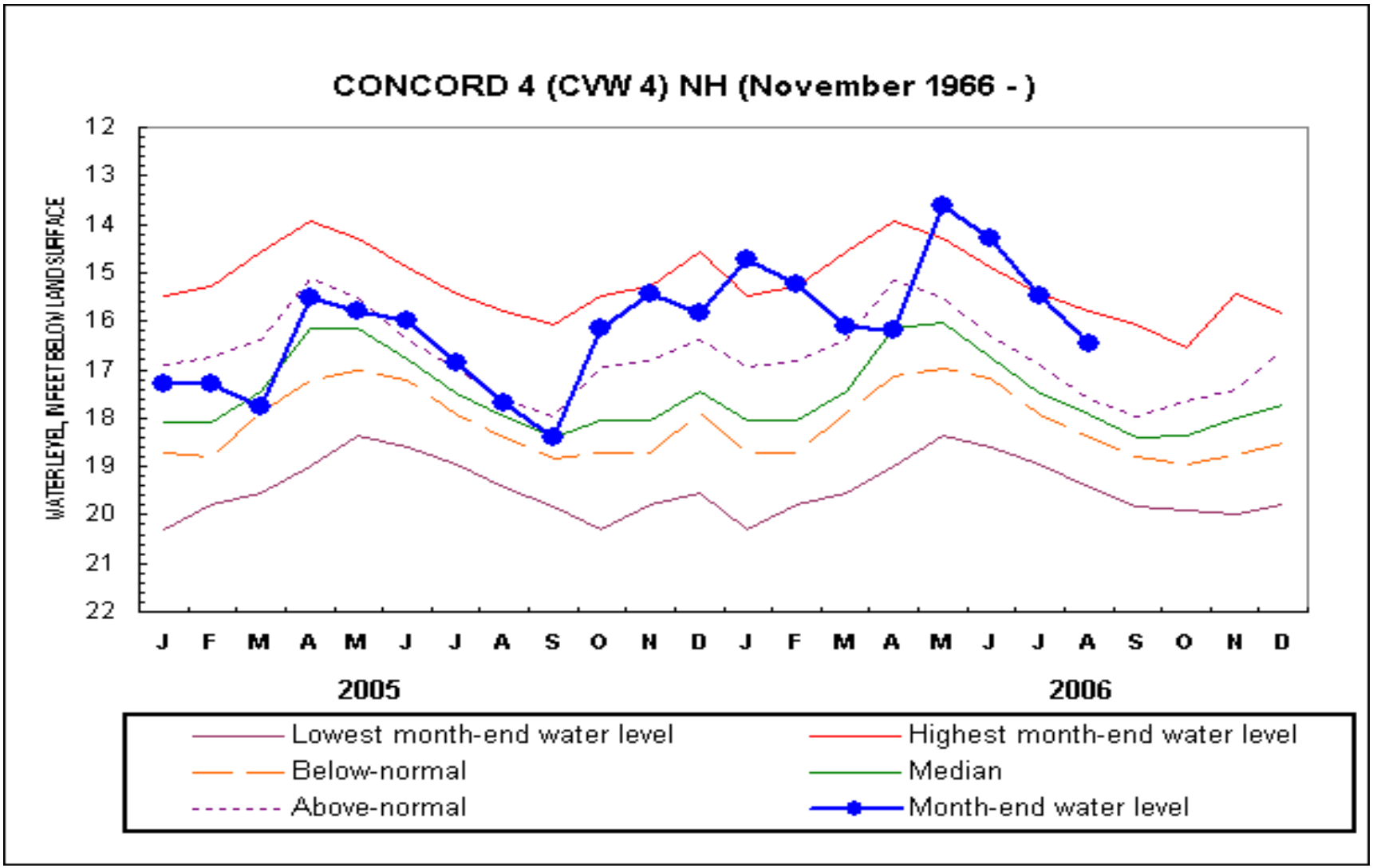

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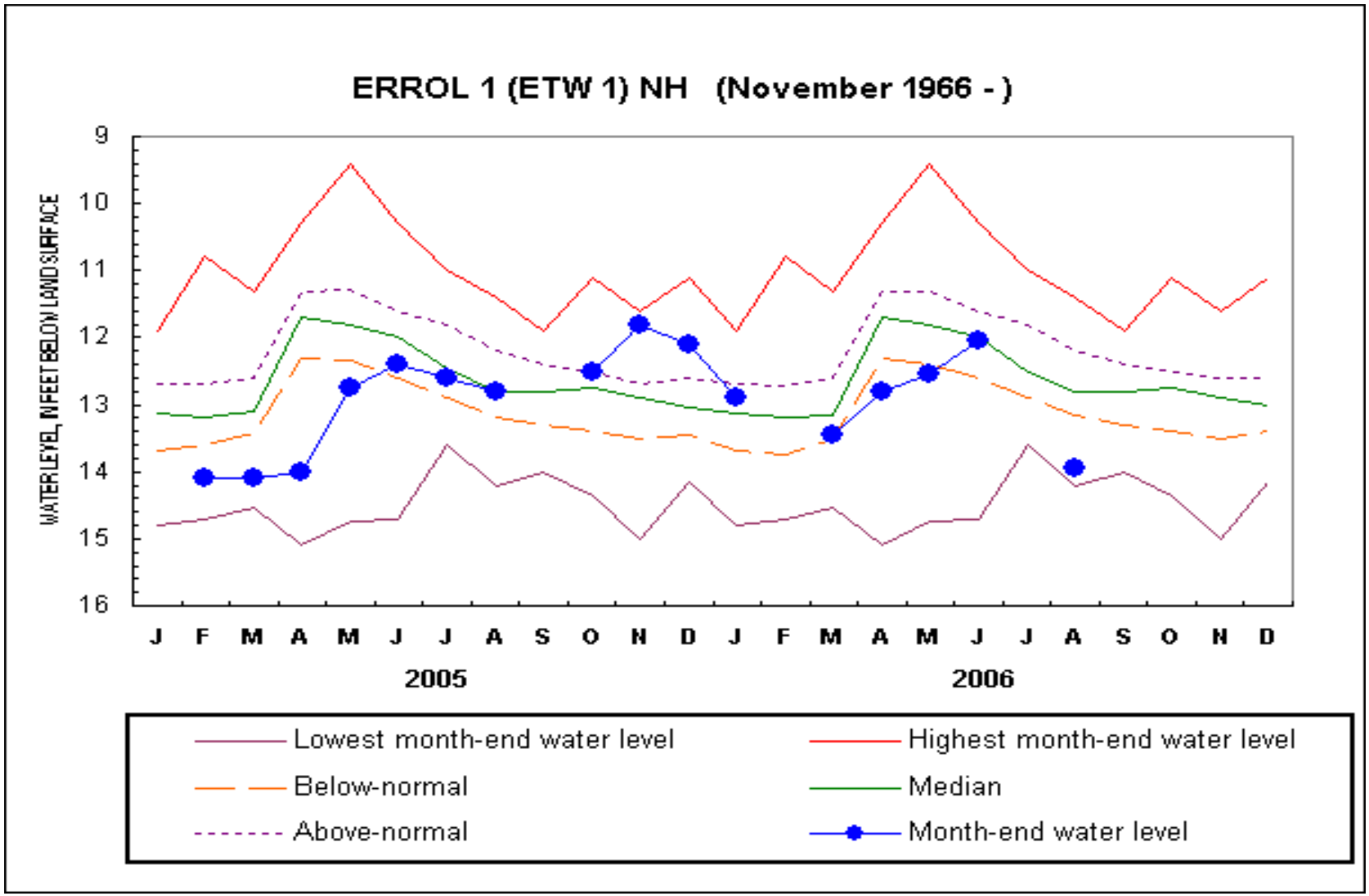

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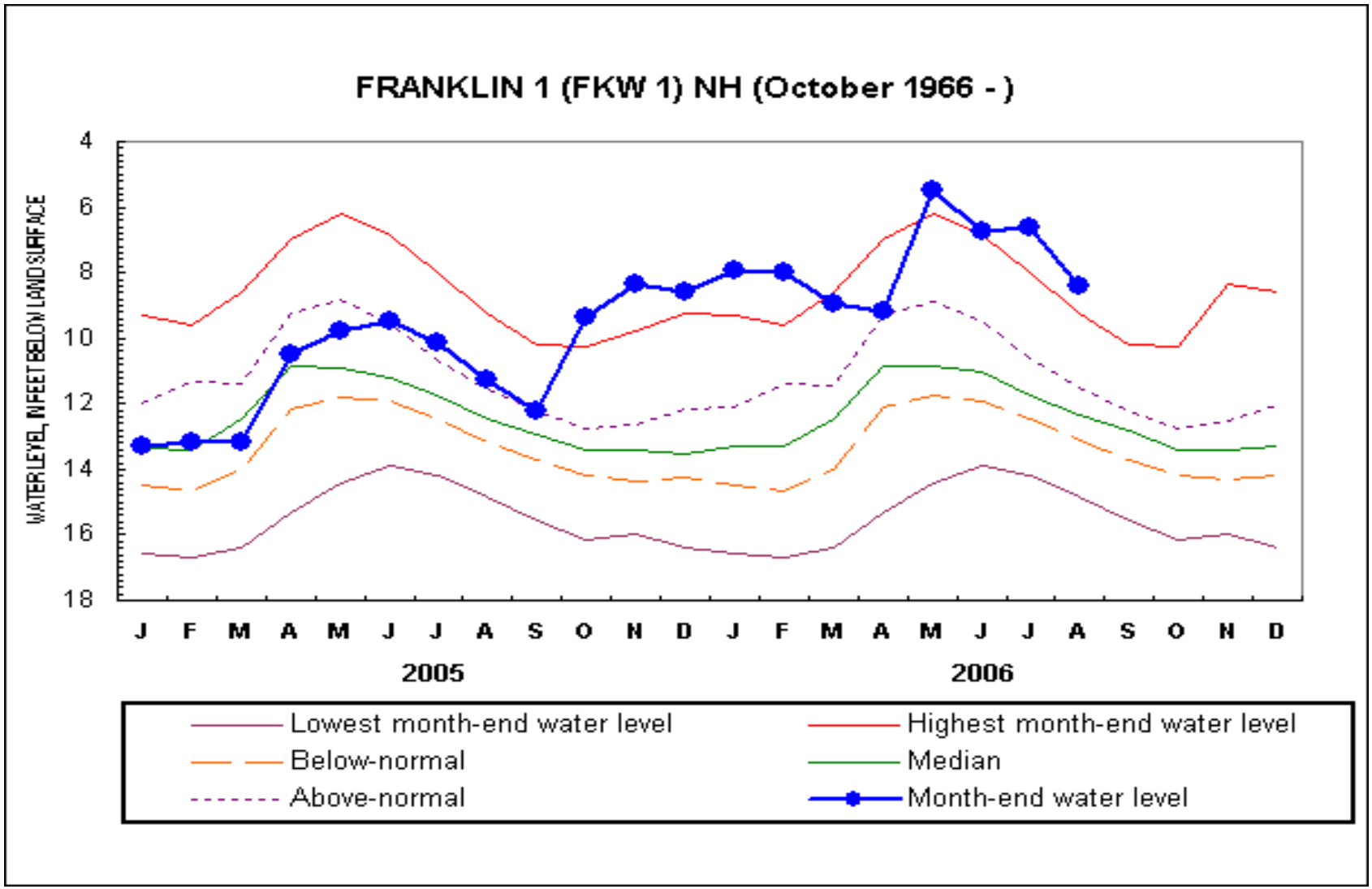

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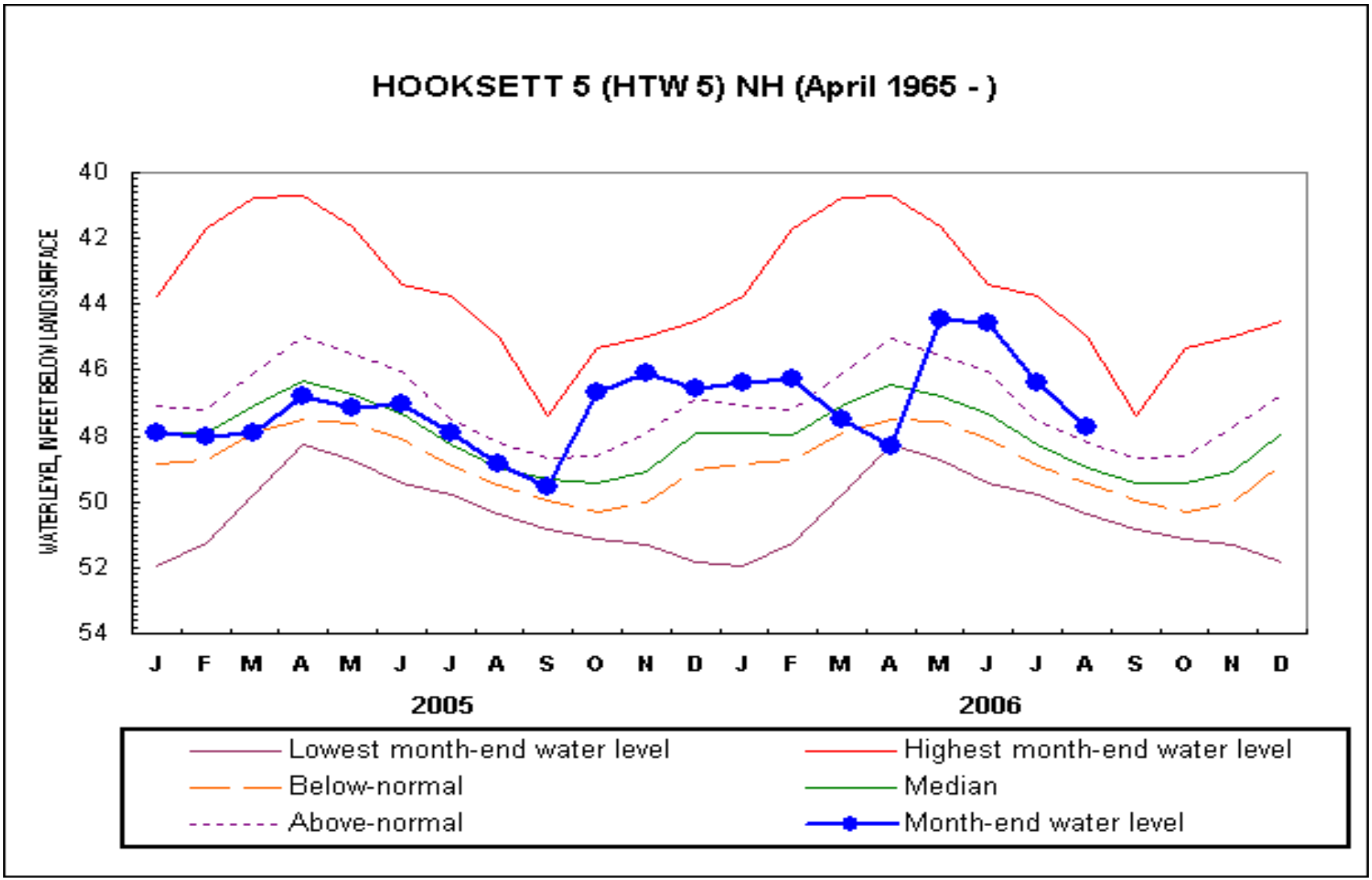

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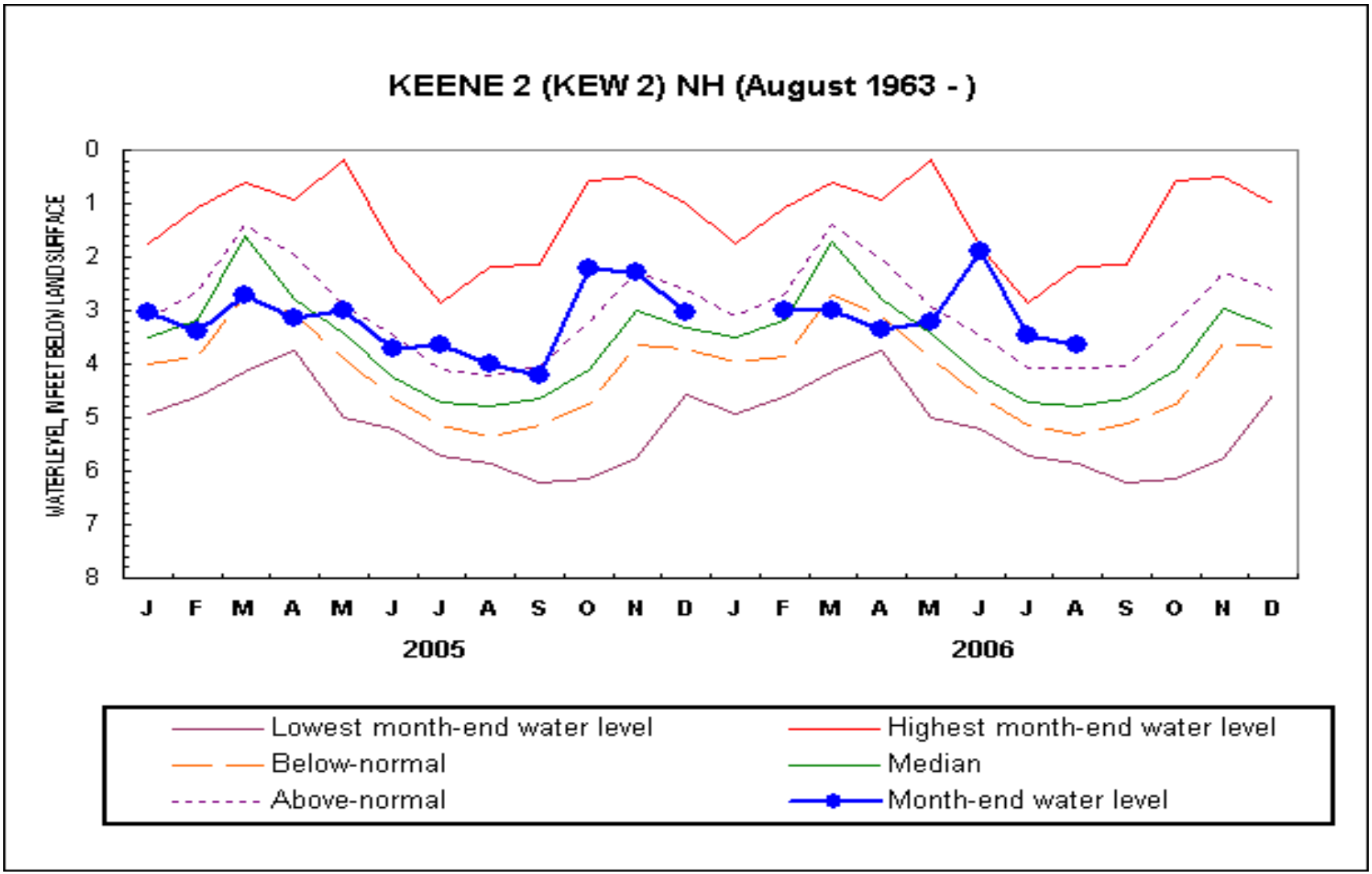

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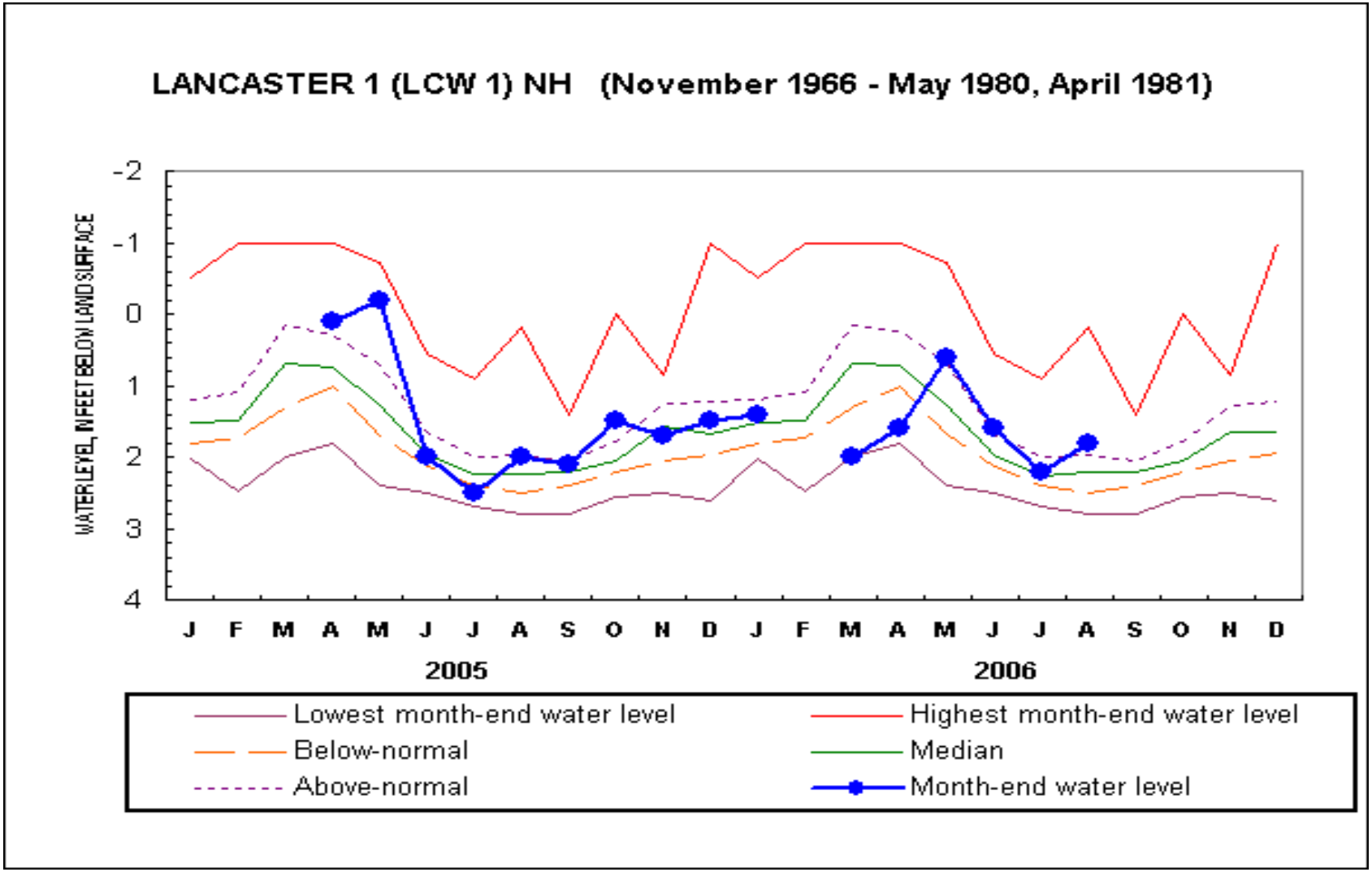

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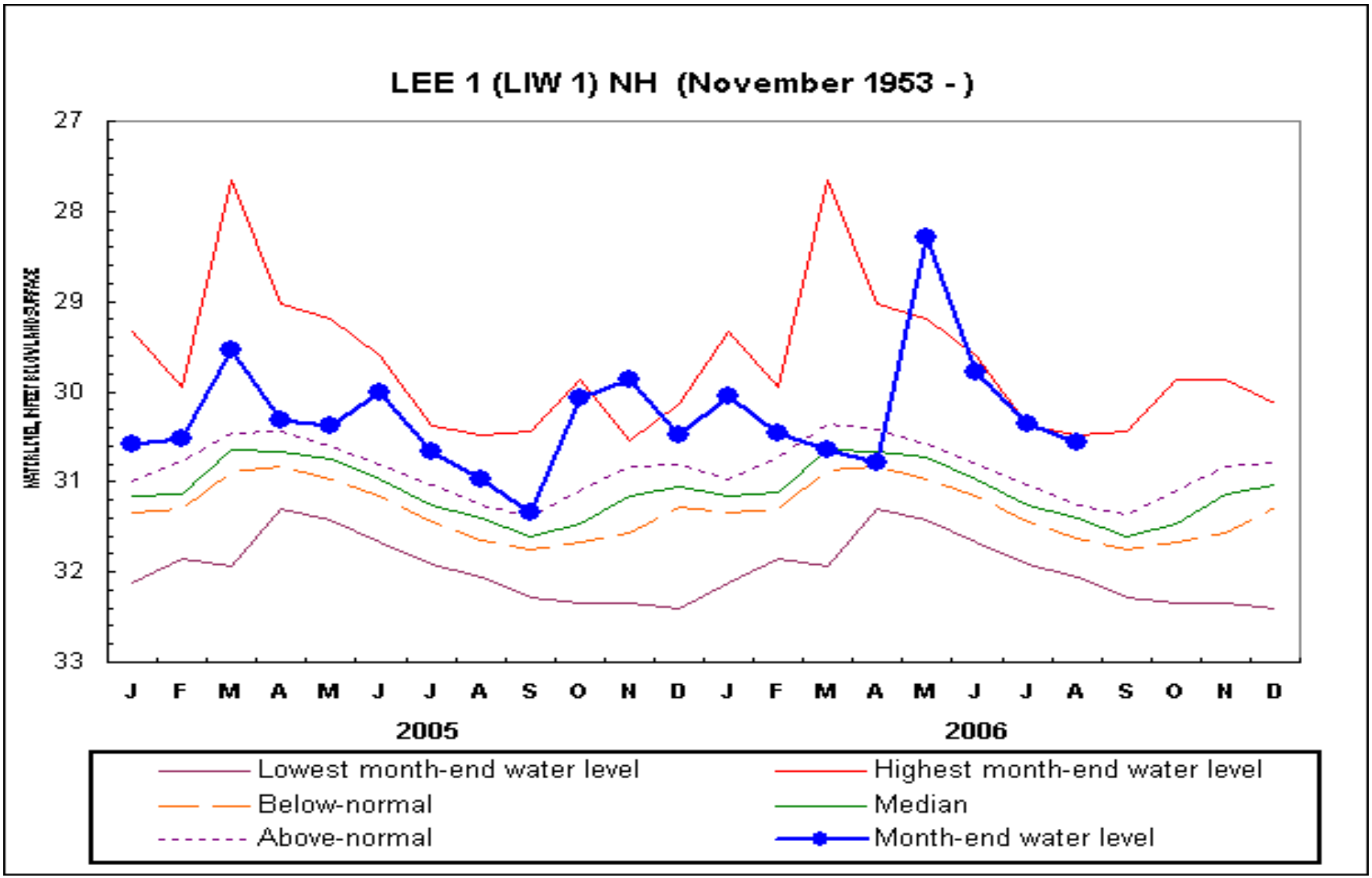

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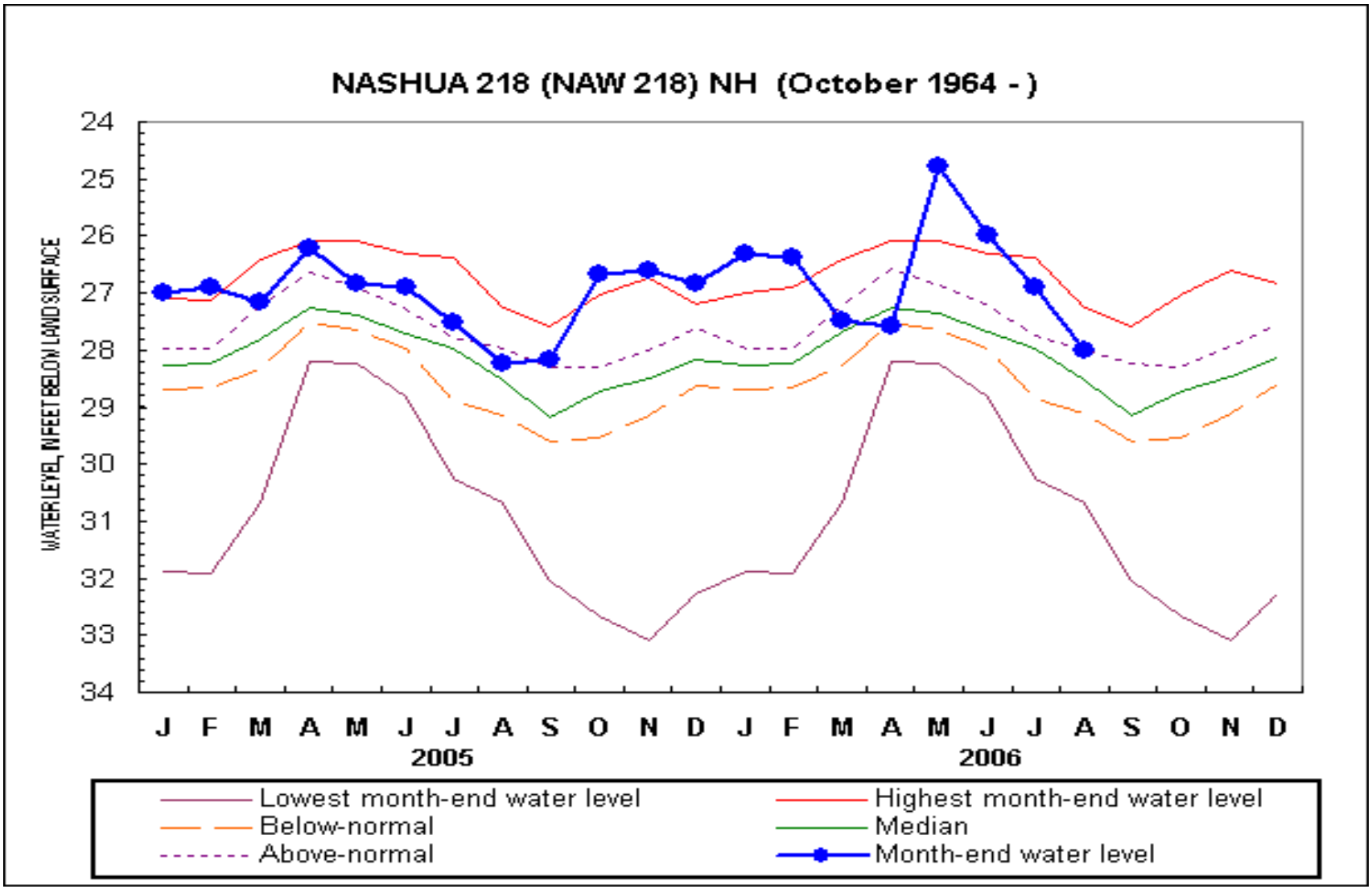

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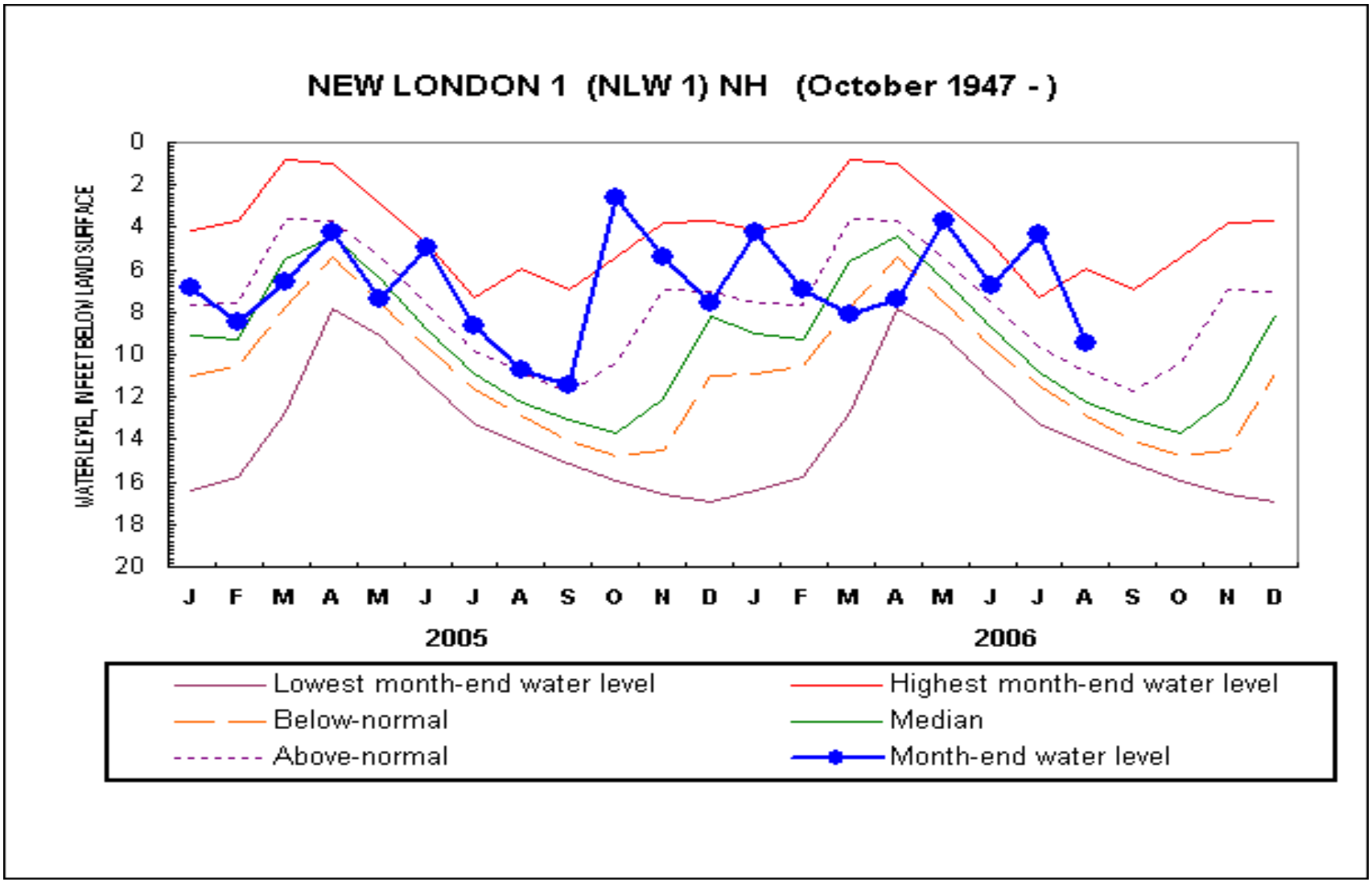

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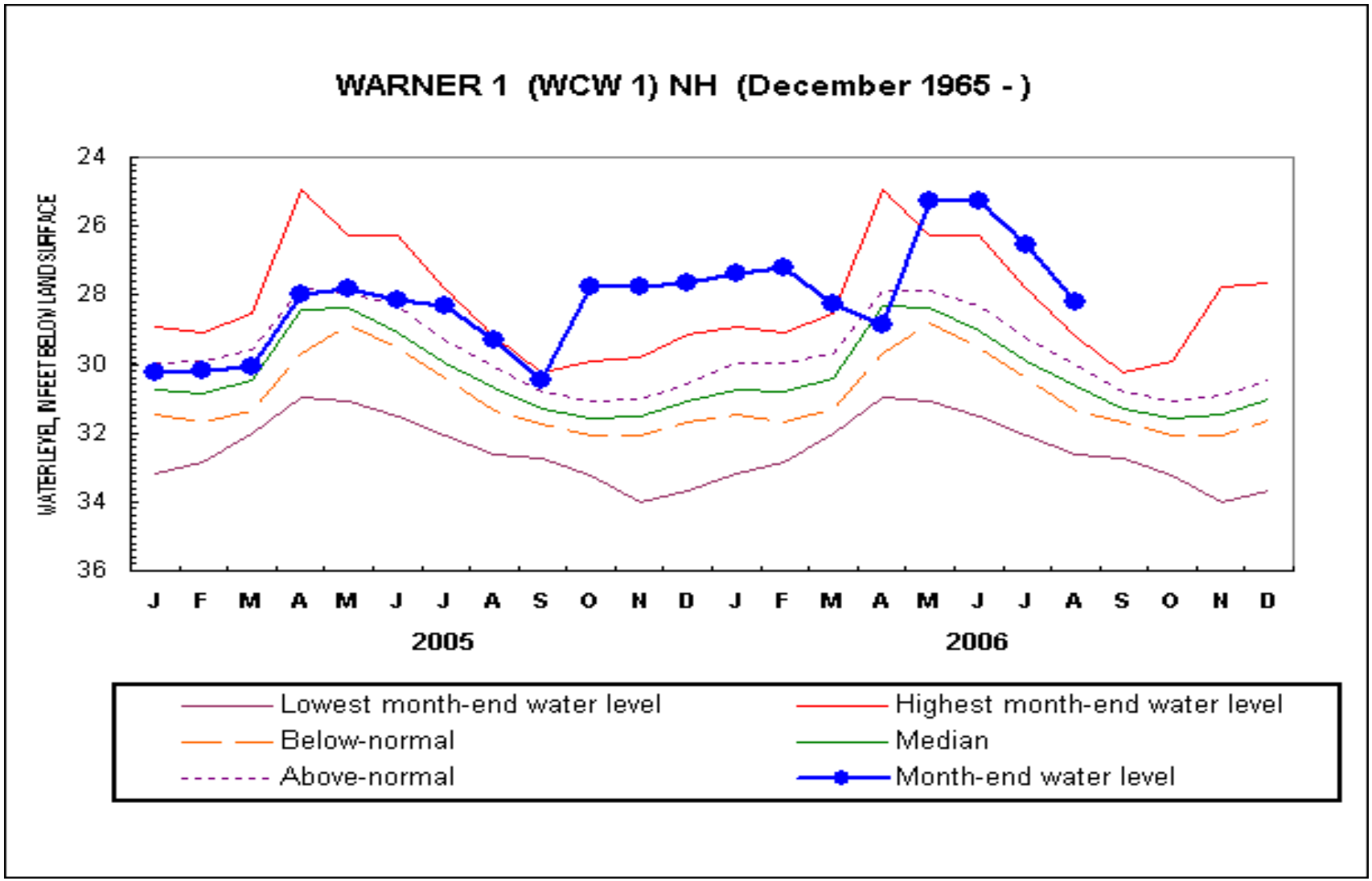

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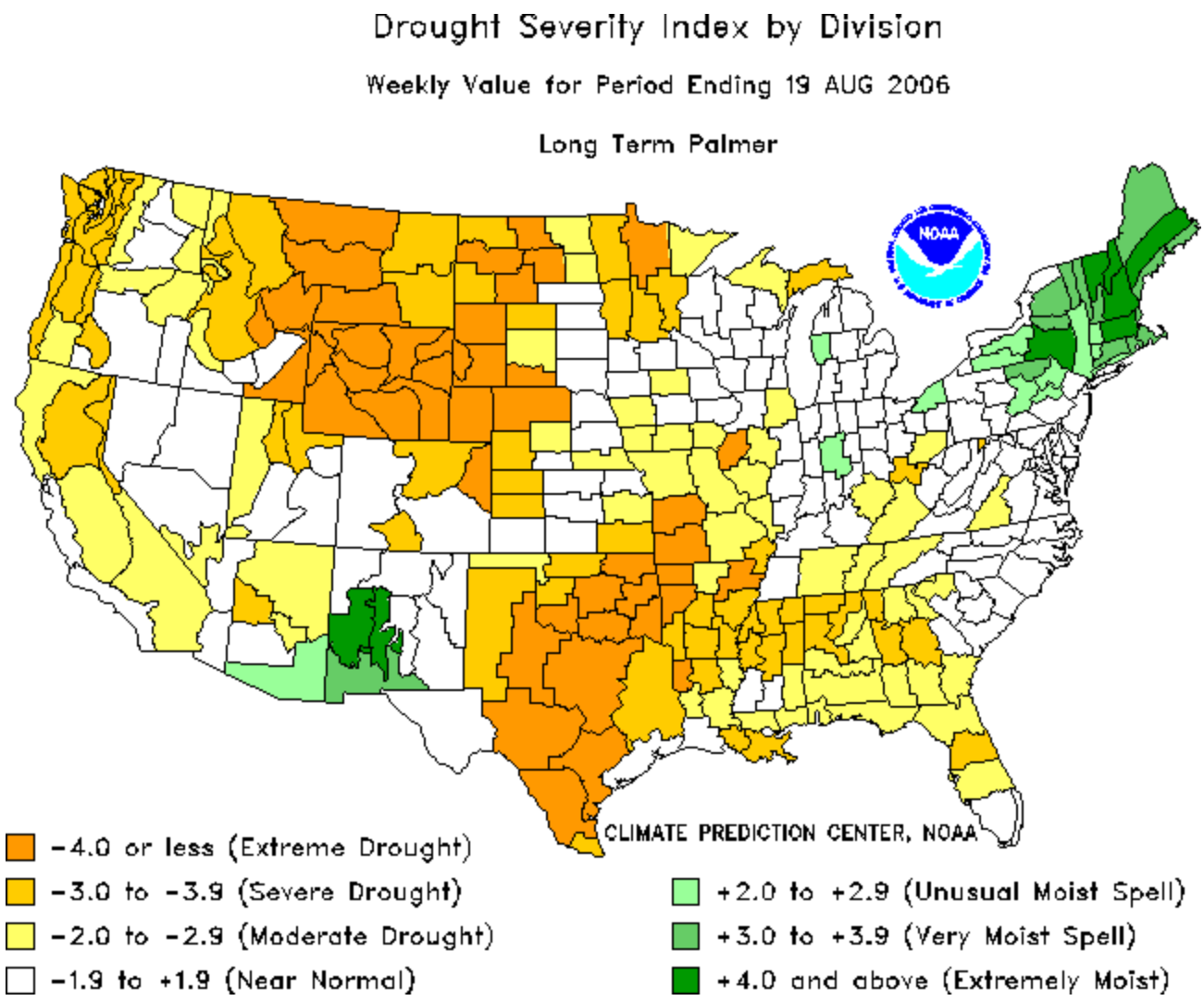
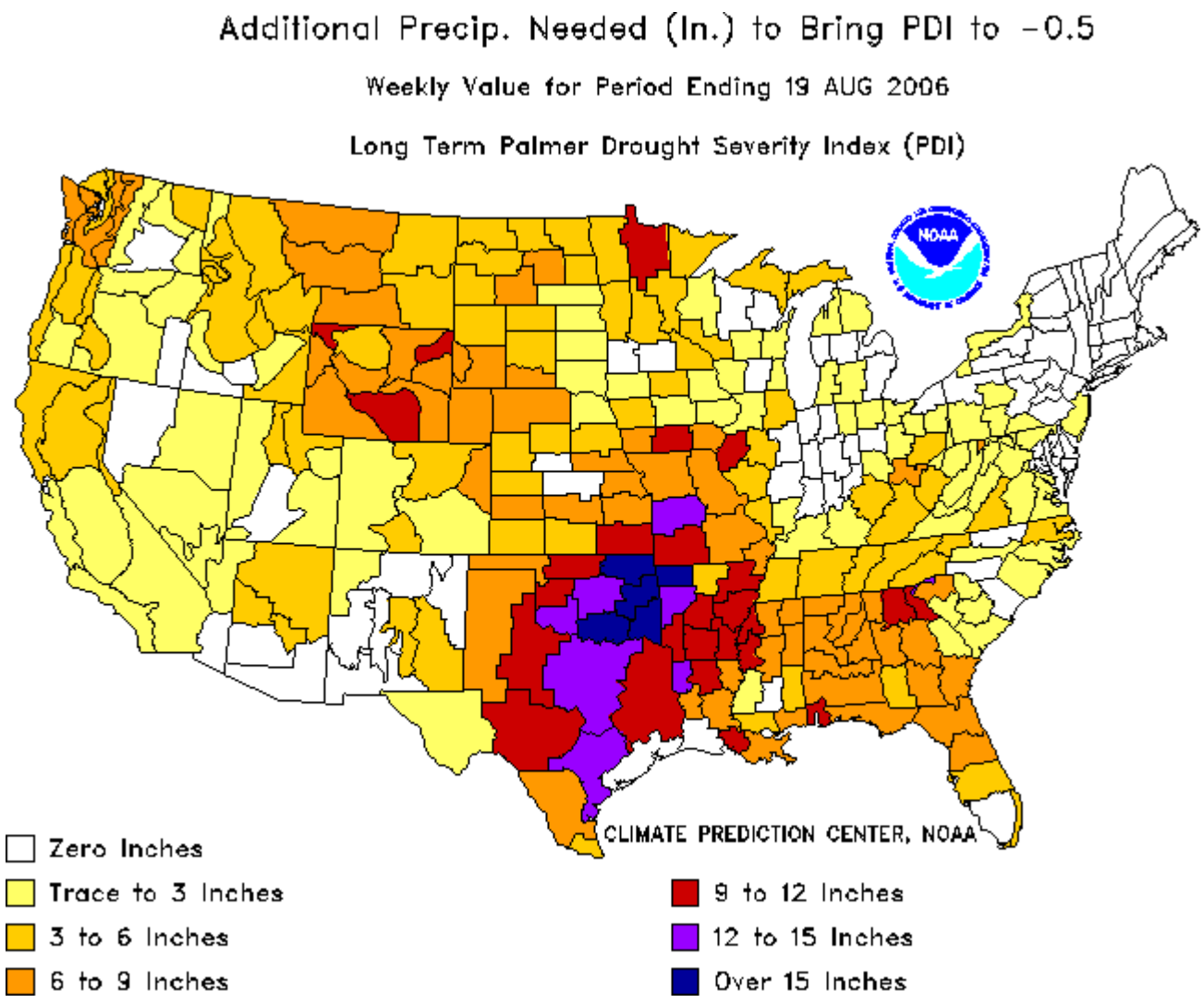


THE PALMER DROUGHT SEVERITY INDEX

The Palmer Index uses temperature and rainfall information in a formula to determine dryness. The advantage of the Palmer Index is that it is standardized to local climate.



This is the amount of rainfall required in a week's time to bring the index back to zero inches required.